Read this instruction sheet thoroughly before use.



HA Series

Code No. 439-53901

Creatinine-HA (Modified Jalle method)

この面は海外向けの添付するです。 HA Sories Creatining HA は本品の輸出用名称です。 This page of the package insert is for use in countries outside of Japan HA Series Creatining HA is the export name of this product.

Intended use

HA Series Creatinine-HA is an in vitro essay for the quantitative determination of creatining in serum or uring.

Summary and explanation of the test

Creatinine is produced directly from creating phosphate or by the de-Greathma is produced directly from creatine phosphate or by the de-hydration of creatine in the muscles and nerves. The amount of metaboli-cally produced creatinine in the unite is conveniently used to fest promenter function. Therefore, creatinine measurement is and of the essential clinical lesis in the diagnosis of uremia and renal dispasses, such as remains sufficiency and hephritis, and in manifolding renal dispasses. There are various colorimatic methods based on Julife realion. This resignit provides a plinet assay with Jaffe method that gives reliable results without the intereronce from bilinubin.

Rosgenta

(1) Alkaline

Store at below 25°C

0.10 mol/L sodium (etreborate containing sodium hydroxida

(Z) Additional A

Store at below 25°C

0.20 movL periodic scid (3) Pierie Acid

Stora at below 25°C

6.7 mmo/L 2,4.6-liiniirophenol (picric scid)

(4) Additional B

commining diethanolaming

Store at below 25°C

Principle of the method

When a numble is added to the reagents, creativens in the sample reacts with piere and to yield a radder-prange color condensate in alkaline eqlution (Jaffe Jeaction). By measuring the absorbance charge of the reddishiprange color conderessic, creatining in the sample is determined.

OH' Picho and + Creatinine -Ficr-c acid-Creatinine condensale

Reagent preparation and test procedure

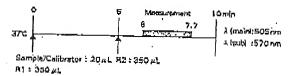
1. Proparetion of reagents

R1 Prepare Reagent 1 by mixing one each bottle of Additional A and After preparing the Reagent 1, store at 2-25°C and use within two weeks.

See "Precaulions on assays": R2 : Prepare Reagent 2 by mixing one each bonte of Additional B and

Alter preparing the Reagent 2, store at 2-25°C and use within two months,

2. Standard Procedure



Colibrator: Creatinine Standard Solution (Available separately)
The assigned Value of Creatinine Calibrator is traceable to SRM9145 (NIST).

< Calculation of creatining concentration>

Calculate creatining concentration from the calibration curve which was created from absorbance change of calibrator.

Application to the various suremetic analyzers > lappy the parameters according to the instructions of instruments to perform the measurement, instrument applications are evallable upon raciuca,

Precautions on procedure

(1) Samples

(a) Assay camples immediately after collection.

(b) Hamplytis gives slightly positive offer on the assay.

(c) Ascarbic acid and bilirubin do not have significant effects on the Programme and the contract of the contract of

(Z) Interlening substances

(a) Hapann, citrale, oxalete and EDTA do not have a supplicant influences on the essay When they are used in their usual amounts.

Expected values

mafe 0.8-1.3 mg/dL#)

lemale 0 S-0.9 mg/d(40

Performance

(1) Sereiljuty

(8) When purified water is assayed, the absorbance change is not more than 0.010 (AE/min).

as (Lb)gm or entities to noileant entities of the branch as (Cb) When a standard of given concentration (c) assayed, the absorbance change is 0,006-0,050 (dE/min).

Specificity

When a control serum or uring of known concentration is essayed, the easely value falls within the range of \pm 5% of the known concentration,

Precision

When a sample is assayed not less than 5 times in a run, CV is not more

Messurable range

Up to 25 mg/dL cresumine, (in the case of using the standard proce-Gulfe)

Correlation

Specimen	Serum	Urine
Cornelation codficient	r = 0.999 (n = 50)	; == 0 939 (n = 55)
Regressión roution	y = 1.029x - 0.42	y = 094/x + 338
у	HA Senes Creationno-HA (mg/sL)	HA Series Creatialing HA (mg/dL)
X.	Creatinine-Teet wake (Jaffe method, mg/dL)	A product of Company A (Enzymatic method. mg/dL)

Precautions on assays

- (1) Do not use the reagents described above in any procedures other than those described herein. Parlormance cannot be gueranteed if the reagonts are used in other protedures or for other purposes.
- Operate the instruments according to operator's manuals under appropriete conditions. Consult the Instrument manufacturer for details.
- Store the reagents under the specified conditions. Do not use reagents past the expiration data stated on each resignal container label.
- (4) After opening the reagents, π is recommended to use them immediately. When the opened rangents are stored, cap the bottles and keep them under the specified conditions.
- (5) Do not use the containers and other materials in the peckage for any purposes other than those described herein.
- If the container of the Reagent 1 is left open for extended periods, the reagent may absorb carbon dioxide in the air causing a degreese in pH and it may give errors on essay. Therefore, the Reagent 1 should be stored in tignity closed container.
- (7) Use Creatinine Standard Solution for calibration. Refer to the instruction sheet in the Calibrator.

Precautions for protection from hazards

(1) If the reagents come in contact with mouth, eye of skin, wash off immedialely with a large amount of water Consult a physician it necessary The Additional A and the Pictic Acid are acidic of which pix is not more

The Additional B and the Alkaline are alkaline of which pH is not less thán 11.

Precautions on disposal

- (1) When discarding the reagents, dispose of them according to local or national regulations. The Alkaline contains 20.2 g/L podium tetraporate (4.54 g/L as boron). The Pictic Acid contains 2 g/L picto acid of the phenol.
- (2) All the devices implicting reagents and reagent bottles consumed with specimen should be considered potentially infectious.

Precautions on results and diagnosis

This askay should not be used as the sole determinant for clinical diagnosis.

References

- (1) Fabiny, D. L. and Eningahauren, G. ; Clin. Chem., 17, 698-700 (1971). (2) Kouki Tsulaul, Moto Morriada and Sachie Okayama, Rinayo Byour, 18, Homias. 324 (1871) (in Japanese)
- (3) Kouki Tsulsui, Nihon Rhanjo, Fall extra edition, 43, 254-257 (1985). (m Japanese)

Ordering information

Code No.	. Product	Pockage
439-53901	HA Scries Creations-HA 7150	For 600 tests
	Alkaline	3 × 56 mL
	Additional A	3 × 2,35 mL
	÷	(3 × 10±56 mL)
	Pichic Adia	2 × 55 mL
	Additional B	2 × 2.13 mL
		(2 × for 56 mL)
12-33361	Greatinine Standard Solution	
	(Creatizina: 10 mg/s(_)	4 × 5 mL

REV.#1/0401 DDD 00K

Manufactured by

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